

PHILIPPINE BIDDING DOCUMENTS

DESIGN AND BUILD SCHEME FOR THE DEVELOPMENT OF PORT IRENE FACILITIES, STA. ANA, CAGAYAN

Government of the Republic of the Philippines



JANUARY 2021

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the “Works”) through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv) the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in

the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.

- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



REPUBLIC OF THE PHILIPPINES
OFFICE OF THE PRESIDENT

Cagayan Economic Zone Authority

INVITATION TO BID

Design & Build Scheme for the Development of Port Irene Facilities, Sta. Ana, Cagayan

The **Cagayan Economic Zone Authority**, through the Corporate Operating Budget CY 2020 intends to apply the sum of **One Hundred Thirty Eight Million Three Hundred Thirty Seven Thousand Pesos (₱ 138,337,000.00)** being the Approved Budget for the Contract (ABC) for the **Design & Build Scheme for the Development of Port Irene Facilities, Sta. Ana, Cagayan**. Bids received in excess of the ABC shall be automatically rejected at bid opening.

The Cagayan Economic Zone Authority now invites bids for the **Design & Build Scheme for the Development of Port Irene Facilities, Sta. Ana, Cagayan**. Project must be completed in **300 calendar days from receipt of Notice to Proceed**.

Bidders must have a track record of having completed a similar project **within the last five (5) years from the date of submission and receipt of bids**. The description of an eligible bidder is contained in the Bidding Documents, particularly, in **Section II. Instructions to Bidders**.

Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass and fail” criteria as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines.

Interested bidders may obtain further information from the **BAC Secretariat** of the **Cagayan Economic Zone Authority** and inspect the Bidding Documents at the address stated hereunder during **8:00 AM to 5:00 PM Monday to Friday**.

A complete set of Bidding Documents may be purchased by interested Bidders on **January 20, 2021 to February 09, 2021** from the address stated hereunder and upon payment of a nonrefundable fee for the Bidding Documents in the amount of **₱ 50,000.00**.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the CEZA website at www.ceza.gov.ph, provided that bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

The **Cagayan Economic Zone Authority** will hold a **Pre-Bid Conference** on **January 28, 2021, 10:00 AM** at CEZA Mandaluyong Office, 10th Floor, Greenfield Tower, Mayflower St. cor. Williams St., Greenfield District, Mandaluyong City, which shall be open to all prospective bidders. All prospective bidders are advised to join the Pre-Bid conference via webinar which will be posted on CEZA website before 10:00 AM, January 28, 2021.

Bids must be duly received by the BAC Secretariat at the CEZA Mandaluyong Office, 10th Floor, Greenfield Tower, Mayflower St. cor. Williams St., Greenfield District, Mandaluyong City on or before **February 09, 2021, 5:00 PM**. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in the **ITB Clause 18**.

Bid opening shall be on **February 10, 2021, 10:00 AM** at Boardroom, CEZA Mandaluyong Office, 10th Floor, Greenfield Tower, Mayflower St. cor. Williams St., Greenfield District, Mandaluyong City. Bids will be opened in the presence of the Bidders’ representatives who choose to attend at the address above stated or via webinar. Late bids shall not be accepted.

The Cagayan Economic Zone Authority reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

For further information, please refer to:

The BAC SECRETARIAT

CEZA Mandaluyong Office

10th Floor, Greenfield Tower, Mayflower St. cor. Williams St., Greenfield District, Mandaluyong City

Telephone Number: +632 8291-2704 to 08

bacsecretariat@ceza.gov.ph

(Sgd.) **DHART E. CARPIO**
BAC Chairman

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

1. Scope of Bid

The **Cagayan Economic Zone Authority (CEZA)** invites Bids for the **Design & Build Scheme for the Development of Port Irene Facilities, Sta. Ana, Cagayan**, with Project Identification Number CEZA-CW-001-2021.

The Procurement Project (referred to herein as “Project”) is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for Corporate Operating Budget CY 2020 in the amount of One Hundred Thirty Eight Million Three Hundred Thirty Seven Thousand Pesos and 0/100 (₱ 138,337,000.00)

2.2. The source of funding is:

- a. GOCC and GFIs, the Corporate Operating Budget.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.
- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

a. Subcontracting is not allowed.

- 7.1. *[If Procuring Entity has determined that subcontracting is allowed during the bidding, state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criteria stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.2. *[If subcontracting is allowed during the contract implementation stage, state:]* The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

- 7.3. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on **January 28, 2021, 10:00 AM** at the CEZA Mandaluyong Office, 10th Floor, Greenfield Tower, Mayflower St. cor. Williams St., Greenfield District, Mandaluyong City and/or through videoconferencing/webcasting} as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 14.2. Payment of the contract price shall be made in:
 - a. Philippine Pesos.

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security shall be valid until **June 09 , 2021**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

18. Opening and Preliminary Examination of Bids

- 18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

Bid Data Sheet

ITB Clause	
5.2	For this purpose, similar contracts shall refer to projects involving the construction of earthmoving and concrete pavement (PCCP) and relevant utilities.
7.1	Subcontracting is not allowed.
10.3	The contractor must have a valid PCAB License Medium A Category B for General Engineering (GE-1) for the proposed project.
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <ul style="list-style-type: none"> a. 1 Project Manager – Licensed Civil Engineer or Architect with at least five (5) years of similar experience b. 1 Project Engineer – Licensed Civil Engineer with at least five (5) years of similar experience c. 1 Electrical Engineer – Licensed Electrical Engineer with at least five (5) years of similar experience d. 1 Surveyor – Licensed Geodetic Engineer with at least one (1) year of similar experience e. 1 Foreman with at least five (5) years of similar experience
10.5	<p>The minimum major equipment requirements are the following:</p> <ul style="list-style-type: none"> a. 2 units backhoe b. 1 unit grader c. 1 unit loader d. 1 unit hydraulic crane e. 1 unit bulldozer f. 1 unit low-bed truck g. 1 unit vibratory compactor h. 2 units cement mixer i. 2 units 10-wheeler dump truck j. 1 unit batching plant , automatic by weight k. 1 unit 30-40 tons hydraulic vibro hammer l. 1 unit manlift
12	<p>Additional submittal in the first envelope during opening of bids in accordance with Annex G of the Revised IRR of RA 9184</p> <ul style="list-style-type: none"> 1. Preliminary Concept Design Plans in accordance with the degree of details specified by the Procuring Entity; 2. Design and Construction Methods; and 3. Value engineering analysis of design and construction method.

	4. Other requirements provided in the Scope of Works
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: a. The amount of not less than ₱ 2,766,740.00, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; b. The amount of not less than ₱ 6,916,850.00 if bid security is in Surety Bond.
19.2	Not applicable.
20	Quarry permit and other relevant government required permits and licenses
21	Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contractor, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC supplemented by any information obtained by the Contractor.

7. Warranty

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the SCC.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the SCC, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex “E” of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the **SCC**, the Dayworks rates in the Contractor’s Bid shall be used for small additional amounts of work only when the Procuring Entity’s Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity’s Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.

11.2. The Contractor shall submit to the Procuring Entity’s Representative for approval an updated Program of Work at intervals no longer than the period stated in the **SCC**. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity’s Representative may withhold the amount stated in the **SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor’s accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the **SCC**, subject to the requirements in Annex “E” of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity’s Representative/Project Engineer. Except as otherwise stipulated in the **SCC**, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

15.1. If required, the Contractor will provide “as built” Drawings and/or operating and maintenance manuals as specified in the **SCC**.

- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

Special Conditions of Contract

GCC Clause	
2	<i>[If different dates are specified for completion of the Works by section, i.e. “sectional completion,” these dates should be listed here.]</i>
4.1	<i>[Specify the schedule of delivery of the possession of the site to the Contractor, whether full or in part.]</i>
6	The site investigation reports are: <i>[list here the required site investigation reports.]</i>
7.2	<p><i>[Select one, delete the other.]</i></p> <p><i>[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:]</i> Fifteen (15) years.</p> <p><i>[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:]</i> Five (5) years.</p> <p><i>[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]</i> Two (2) years.</p>
10	<p><i>[Select one, delete the other:]</i></p> <p style="padding-left: 40px;">a. Dayworks are applicable at the rate shown in the Contractor’s original Bid.</p> <p style="padding-left: 40px;">b. No dayworks are applicable to the contract.</p>
11.1	The Contractor shall submit the Program of Work to the Procuring Entity’s Representative within <i>[insert number]</i> days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is <i>[insert amount]</i> .
13	The amount of the advance payment is <i>[insert amount as percentage of the contract price that shall not exceed 15% of the total contract price and schedule of payment]</i> .
14	<i>[If allowed by the Procuring Entity, state:]</i> Materials and equipment delivered on the site but not completely put in place shall be included for payment.
15.1	The date by which operating and maintenance manuals are required is <i>[date]</i> .

	The date by which “as built” drawings are required is <i>[date]</i> .
15.2	The amount to be withheld for failing to produce “as built” drawings and/or operating and maintenance manuals by the date required is <i>[amount in local currency]</i> .

Section VI. Specifications

Notes on Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted

subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.

Section VII. Drawings

Refer to Scope of Works- Annex A and Annex B

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Daywork Schedule

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Signature Box

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
or
- (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
and
- (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

- (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (g) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules;
and
- (h) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**
- (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- (j) Project Requirements, which shall include the following:
 - a. Organizational chart for the contract to be bid;
 - b. List of contractor’s key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
 - c. List of contractor’s major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**
- (k) Original duly signed Omnibus Sworn Statement (OSS);

and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

- (l) Additional submittal in the first envelope during opening of bids in accordance with Annex G of the Revised IRR of RA 9184
- a. Preliminary Concept Design Plans in accordance with the degree of details specified by the Procuring Entity;
 - b. Design and Construction Methods; and
 - c. Value engineering analysis of design and construction method.
 - d. Existing valid quarry permit within the area of Cagayan province for the proposed project supported by a certificate coming from the Province of Cagayan
 - e. Certificate of site inspection issued by the Engineering Section of Cagayan Economic Zone Authority
 - f. Preliminary survey in the site validated by the Engineering Section of Cagayan Economic Zone Authority.
 - d. Other requirements provided in the Scope of Works
- (m) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- (n) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

- (o) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;
or
duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- (p) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- (q) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (r) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**
- (s) Cash Flow by Quarter.

SCOPE OF WORKS

DESIGN AND BUILD SCHEME FOR THE DEVELOPMENT OF PORT IRENE FACILITIES, STA. ANA, CAGAYAN

A. INTRODUCTION

The Cagayan Economic Zone Authority (CEZA) was created through Republic Act 7922, otherwise known as the "Cagayan Special Economic Zone Act of 1995", and signed by President Fidel V. Ramos on February 24, 1995. CEZA is a government corporate body tasked to manage and supervise the Cagayan Special Economic Zone and Freeport (CSEZFP) which covers the entire municipality of Sta. Ana and the islands of Fuga, Barit and Mabbag in the municipality of Aparri, Province of Cagayan.

The area is envisioned to be a self-sustaining, eco-friendly freeport and Agri-industrial zone and mixed-use new township development. It is being developed to be a major transshipment center for agro-industrial, light and medium, and high technology and knowledge-based industries with world-class tourism facilities and establishments. It will also provide for residential and commercial districts complete with state-of-the-art utilities and infrastructure support systems.

The development of CSEZFP will be anchored on a tri-nodal development nucleus: the creation of a transshipment industry; agro-industrial development by enhancing agricultural produce and endowments with foreign technology and capital for value-added yield; and the development of tourism and leisure facilities.

B. STATEMENT OF PURPOSE

This Scope of Works (SOW) has been compiled by CEZA solely for the Design and Build Scheme for the Development of Port Irene Facilities, Sta. Ana, Cagayan. The contemplated plan for seaport development is to redevelop the existing facility at Port Irene into a larger, more modern and sophisticated seaport. In this light, the salient features of the envisioned seaport zone would include three core zones – a major transshipment facility, a major fishing port, and a shipbuilding / repair facility to be provided with the appropriate structures and facilities.

C. CAVEAT

This information is given to assist prospective firms to make their own research and evaluation of the Project, and to aid them in the preparation of the proposal. CEZA does not guarantee the accuracy and completeness of the information contained in the SOW or its various attachments. In all cases, interested parties should conduct their own due diligence, investigation, analysis and projections for the proposed work.

By accepting these SOW, the recipient acknowledges and accepts that: (1) none of the information contained herein will be used by the recipient or any of its employees or

representatives in any manner whatsoever, in whole or in part, other than in connection with its evaluation of the work on the specific basis proposed herein; (2) without limiting the generality of the foregoing, the recipient will not reproduce these SOW to any person other than a limited number of the recipient's employees or representatives who have a clear need to know such information; and, (3) any proposed action by the recipient which are inconsistent in any way with the foregoing agreements will require prior written consent of CEZA.

While CEZA is open to all applications from qualified parties, CEZA reserves the right not to accept any proposal, to reject any or all proposals, to waive formalities therein, or to accept such proposals as may be advantageous to CEZA without thereby incurring any liabilities thereof.

D. OBJECTIVE AND SCOPE OF SERVICES OF THE PROPOSED WORK

Cagayan Economic Zone Authority (CEZA) intends to bid out the Design and Build Scheme for the Development of Port Irene Facilities, Sta. Ana, Cagayan to eligible local contractors. The objectives of the services are as follows:

1. To ensure that the detailed engineering design of the Contractor shall conform to the structural standards and specifications and conceptual requirements of CEZA;
2. To ensure that the construction shall conform to the structural standards and specifications and the requirements of CEZA;
3. To ensure the Contractor will institute the works in accordance with National Building Code of the Philippines (NBCP), National Structural Code of the Philippines (NSTP), Department of Public Works and Highways (DPWH) Standards and Specifications for roads/buildings/structures and any applicable codes;
4. To comply with the Department of Labor and Employment's (DOLE) Occupational Safety and Health Standards.

The Contractor shall prepare the Detailed Engineering Design and Construction Services for the Design and Build Scheme for the Development of Port Irene Facilities, Sta. Ana, Cagayan.

A. Design Stage

The general engineering design services shall include topographical and other field surveys, structural design, soil and materials investigations, preparation of complete detailed design plans, estimates of quantities, detailed unit prices analysis and cost estimates.

Detailed Design Works will include but shall not be limited to:

1. Reconnaissance Survey

Conduct reconnaissance survey to determine suitability of the preliminary plans in terms of general location, principal features and design standard. The final plans will form part of the technical submission prescribed in the Bid Documents.

2. Topographical Survey

The contractor shall undertake preliminary topographical survey along the approved alignment. The contractor shall set out and establish reference points at appropriate locations as key control points of the survey. These points shall be used as benchmarks for identification and use during the subsequent engineering survey.

The levelling shall be tied to the existing Governments benchmark in the area.

All survey information and Data shall be recorded and preserved in standard survey forms and notebooks subject, however, to the review/checking of the CEZA office. Upon completion of the works, all original survey notes will become property of CEZA.

3. Hydrological Survey

The contractor shall undertake preliminary hydrological investigation in the areas to determine the location of the appropriate culvert and to properly provide adequate drainage, flood protection against the erosion and scour forces both for road and other utilities for construction.

4. Soil and Materials Investigations

Carry out detailed soil investigations along the alignment to identify the varying soil types with disturbed samples taken at appropriate intervals and at such other places deemed necessary to determine changes in soil type. Sub-surface conditions will be investigated by drilling, including the taking of disturbed and undisturbed samples for Sieve Analysis, Attenberg Limits, Natural Moisture Content, Soil Classification, Unconfined Compression Test, Consolidation Test and other relevant data like SPT Test. All material testing shall be in accordance with AASHTO and ASTM Standards.

5. Detailed Engineering Design

Prepare a complete and comprehensive site development plan, master utilities infrastructure, street lightings, slope protections, parking and landscaping works for the Design and Build Scheme for the Development of Port Irene Facilities, Sta. Ana, Cagayan.

The contractor shall establish, review and recommend appropriate design of roads and utility infrastructures that shall conform to the Standard Specification for highway bridges, AASHTO, design guidelines, criteria and standard for Public Works and Highways, the National Standard Code of the Philippines and the DPWH seismic Design of bridges.

The contractor shall collect and review appropriate data to determine the proper sizes/types of drainage structures to suit actual field conditions relative to road terrain and other technical factors.

Identify and recommend requirements for effective slope protection, their dimensions, locations and types.

6. Contract/Construction Plan

Prepare necessary plans to be used for construction in accordance with RA 9184 and requirements of CEZA.

7. Quantity Estimates

Compute all construction quantities to an accuracy of plus or minus ten percent (10%) and prepare bill of quantities (BOQ) in the manner and form specified by CEZA.

8. Unit Price Analysis

Prepare detailed analysis of all applicable unit prices using current cost indices, rental rates, etc.

9. Technical Documents

Prepare technical documents consistent with the provision of RA 9184 and its Implementing Rules and Regulations and the policies, practices and procedure of CEZA

- Bill of Quantities
- Technical Specifications
- Construction Drawings
- As-built Drawings

B. Construction Stage

1. All works shall be in accordance with any applicable code and DPWH Standards. Likewise, existing provisions and related issuances will be complied.

2. The contractor to provide basic material testing facilities and equipment capable to undertake regular tests for aggregates and concrete in the presence of Project Inspectors.
3. The contractor shall undertake coordination with the LGU's and secure needed permits/clearances with concerned government agencies if applicable.
4. The contractor shall prepare the construction schedule and submit the same to the Project Management Team prior to start of Construction.

E. DESIGN PARAMETERS

1. Truck Scale Facility – provision for the construction, delivery, installation, testing and commissioning for an accurate and reliable truck weighing scale that can precisely calculate the weight of a load. Ramps will be placed on both sides of the load cell surface to facilitate a secure entry and exit. Scale house of 120 sqm. must also be provided with appropriate control units, gates, guardrails, lights/stop light and truck wash lanes. The final location of which is subject to the approval of the Authority. The truck scale load should have a maximum capacity of at least 150 tons.
2. Design of Hybrid Street Lighting System – provision for the design, construction, delivery, installation, testing and commissioning for a hybrid street lighting system. A well-lighted roadway from the entry archway of Port Irene to the port trestle will provide adequate protection to pedestrians/motorist and to deter casual trespassers or determined intruders from port premises.

Please see Annex A for the technical specifications.

3. Design and Construction of Container Lay Down Area – Port Irene is envisioned as a regional transshipment container port in addition to being a general cargo port at least in its initial stage of development. It is therefore necessary that adequate storage and container yard facilities will be provided in the port area so as to permit the seaport to expeditiously cope with the quick dispatch of ships. About 13,000.00 sq.m of undeveloped portion along the port premise is proposed to be developed into a container lay down area to handle the full load capacity of containerized cargo. The plan will also include the construction of seawall, embankment (core rocks and backfilling materials) underground utilities and support facilities.
4. Design and construction of security/perimeter fence (see Annex B layout plan) with appropriate vehicular and pedestrian gates and guard house at designated areas. The height of the concrete post is seven (7) feet with four layers of barbed

wire from the natural grade line. The fence shall cover the perimeter with an approximate length of 600 meters.

F. CONTRACTOR'S REQUIREMENT

1. The contractor must have a valid PCAB License Medium A Category B for General Engineering (GE-1) for the proposed project.
2. The contractor must have experience in the construction of earthmoving and concrete pavement (PCCP) works and utilities within the last five (5) years from the date of submission and receipt of bids.
3. The contractor must have an existing valid quarry permit within the area of Cagayan province for the proposed project supported by a certificate coming from the Province of Cagayan to ensure the steady supply of quarry materials and avoid the involvement of the contractor of any illegal quarrying activities.
4. The minimum work experience requirements for key personnel are the following:
 - f. 1 Project Manager – Licensed Civil Engineer or Architect with at least five (5) years of similar experience
 - g. 1 Project Engineer – Licensed Civil Engineer with at least five (5) years of similar experience
 - h. 1 Electrical Engineer – Licensed Electrical Engineer with at least five (5) years of similar experience
 - i. 1 Surveyor – Licensed Geodetic Engineer with at least one (1) year of similar experience
 - j. 1 Foreman with at least five (5) years of similar experience
5. The contractor should have the necessary equipment to be used in the construction of the project. These equipment shall be owned/leased by the contractor to be dedicated to the project alone for the duration of the contract.
 - a. 2 units backhoe
 - b. 1 unit grader
 - c. 1 unit loader
 - d. 1 unit hydraulic crane
 - e. 1 unit bulldozer
 - f. 1 unit low-bed truck
 - g. 1 unit vibratory compactor
 - h. 2 units cement mixer
 - i. 2 units 10-wheeler dump truck

- j. 1 unit batching plant , automatic by weight
 - k. 30-40 tons hydraulic vibro hammer
 - l. 1 unit manlift
6. The prospective bidder must have a certificate of site inspection issued by the Engineering Section of Cagayan Economic Zone Authority.
7. The prospective bidder must have conducted preliminary survey in the site validated by the Engineering Section of Cagayan Economic Zone Authority.

G. DATA AND ASSISTANCE TO BE PROVIDED BY CEZA

It shall be the responsibility of CEZA to provide the contractor with the conceptual/layout design and other guidelines which will be the basis of the design and construction.

CEZA shall likewise provide liaison with government agencies and to ensure that the contractor shall have access to all information as may be allowed by the law for the performance of service.

G. EQUIPMENT AND FACILITIES TO BE PROVIDED BY THE CONTRACTOR

The contractor shall provide for its own office and office space for CEZA engineers. Supplies, office equipment, materials and transportation facilities such as service vehicle for the Engineers of CEZA shall likewise be provided by the Contractor. Temporary facilities for the contractor's workers shall likewise be provided by the contractor. Upon termination or expiration of the Contract, such office equipment, supplies and materials, service vehicle shall be disposed of in accordance with the CEZA's instruction.

H. REPORTING AND SUPERVISORY RELATIONSHIP

The contractor shall report to the Administrator and Chief Executive Officer thru the Project Monitoring Team on technical and administrative matters.

I. REPORTS AND DOCUMENTS

The contractor shall submit the following reports and documents to CEZA in the format and content as indicated:

- 1. Detailed Design Work Program – in the form of bar chart & S-curve within thirty (30) days from the receipt of the Notice to Proceed.

2. Design Report – summary of the basis for the presented design including all design calculations properly indexed in five (5) hard copies and one (1) electronic copy.
3. Soil and Materials Report – showing results of all soil survey and sub-surface investigations and test results. The report shall also include evaluations and recommendations together with the final construction drawings in five (5) hard copies and one (1) electronic copy.
4. Quantity Estimates – complete calculation for every item of works specified in the Bill of Quantities (BOQ) to be submitted together with the final construction drawings in five (5) hard copies and one (1) electronic copy.
5. Unit Price Analysis – showing all calculations made in determining the unit price for each item of work including profit factor, overhead, contractor’s tax, etc. to be submitted together with the final construction drawings in five (5) hard copies and one (1) electronic copy.
6. Draft Construction Drawings – Three (3) hard copies in 20” x 30” size within twenty-one (21) days after the issuance of Notice to Proceed (NTP) for review and approval of CEZA.
7. Final Construction Drawings – submit within seven (7) days upon receipt of the final approval from CEZA in five (5) hard copies, A-1 size, and two (2) electronic copies.

J. TIME SCHEDULE / DELIVERABLES

The Design and Build Scheme for the Development of Port Irene Facilities, Sta. Ana, Cagayan should be completed within three hundred (300) calendar days upon receipt of Notice to Proceed from CEZA.

K. LEVEL OF EFFORT

1. The Contractor shall be expected to determine the level of effort that requires expatriate technical and professional services during the life of the Contract. Short-term expatriate assistance should be kept to the minimum required by the Contractor for assuming complete responsibility for the performance of the work under this project.
2. The Contractor shall be expected to determine the level of effort for local technical and professional services required for the performance of the work under this request for proposal.
3. The Contractor shall be expected to determine the level of effort for secretarial, administrative and logistical support staff required to support the work under this request for proposal.

**ANNEX A
TECHNICAL SPECIFICATIONS**

I. LED SOLAR AND WIND HYBRID LIGHTING SYSTEM

1. Luminaire and LED Driver

Parameters	Required Specifications	Proof of Technical Compliance
Design	Integrated or Separate Panel Solar Powered Road lighting	Manufacturer's declaration
Wind Turbine	Overcharge protection, overdischarge protection, lightning protection, light and time-operated with controller, service life: 15 years	Manufacturer's Declaration
Power Consumption	100-120 Watts	Manufacturer's Declaration
System Efficacy	≥ 90 lm/W	Manufacturer's Declaration
LED Chip	as needed	Manufacturer's Declaration
Chip Structure	as needed	Manufacturer's Declaration
CCT	4500K-6500K	Manufacturer's Declaration
Color Consistency	≥ 7 SDCM	Test Report
Color Rendering Index	≥ 70	Manufacturer's Declaration
Design Life	L70 50,000 Burning Hours	Manufacturer's Declaration
Material	Die-Cast Aluminum	Manufacturer's Declaration
Lens	Polycarbonate	Manufacturer's Declaration
IP Rating	≥ IP65	Test Report
IK Rating	≥ IK08	Test Report
Color	gray	
Electrical Insulation	≥ Class I	Test Report
Operating Temperature	-20 to +45°	Test Report
Certificate	CE/RoHs or other equivalent certification	Attached

2. Solar Panel Specification

Parameters	Required Specifications	Proof of Technical Compliance
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Type	Solar PV Modules made of Mono or Polycrystalline silicon solar cells	Manufacturer's Declaration
Voltage at maximum power	12-24 VDC	Manufacturer's Declaration
Temperature Resistance	At least up to 45°C	Test Report
IP Rating	≥IP65	Test Report

3. Batteries

Parameters	Required Specifications	Proof of Technical Compliance
Type	Lithium Battery or Equivalent	Manufacturer's Declaration
Normal Capacity	≥40Ah	Manufacturer's Declaration
Explosion Proof	YES	Test Report

4. Controls

Parameters	Required Specifications	Proof of Technical Compliance
Type	Intelligent control	Manufacturer's Declaration
Sensor	Light control	Manufacturer's Declaration
Protection Function	Over charge and discharge protection	Manufacturer's Declaration
Control	Time Control, Light Control	Manufacturer's Declaration

5. Warranty

Parameters	Required Specifications	Proof of Technical Compliance
LED Street Head, PV panel, Batteries and controller	5 Years	Warranty Certificate

II. POLE AND ARM

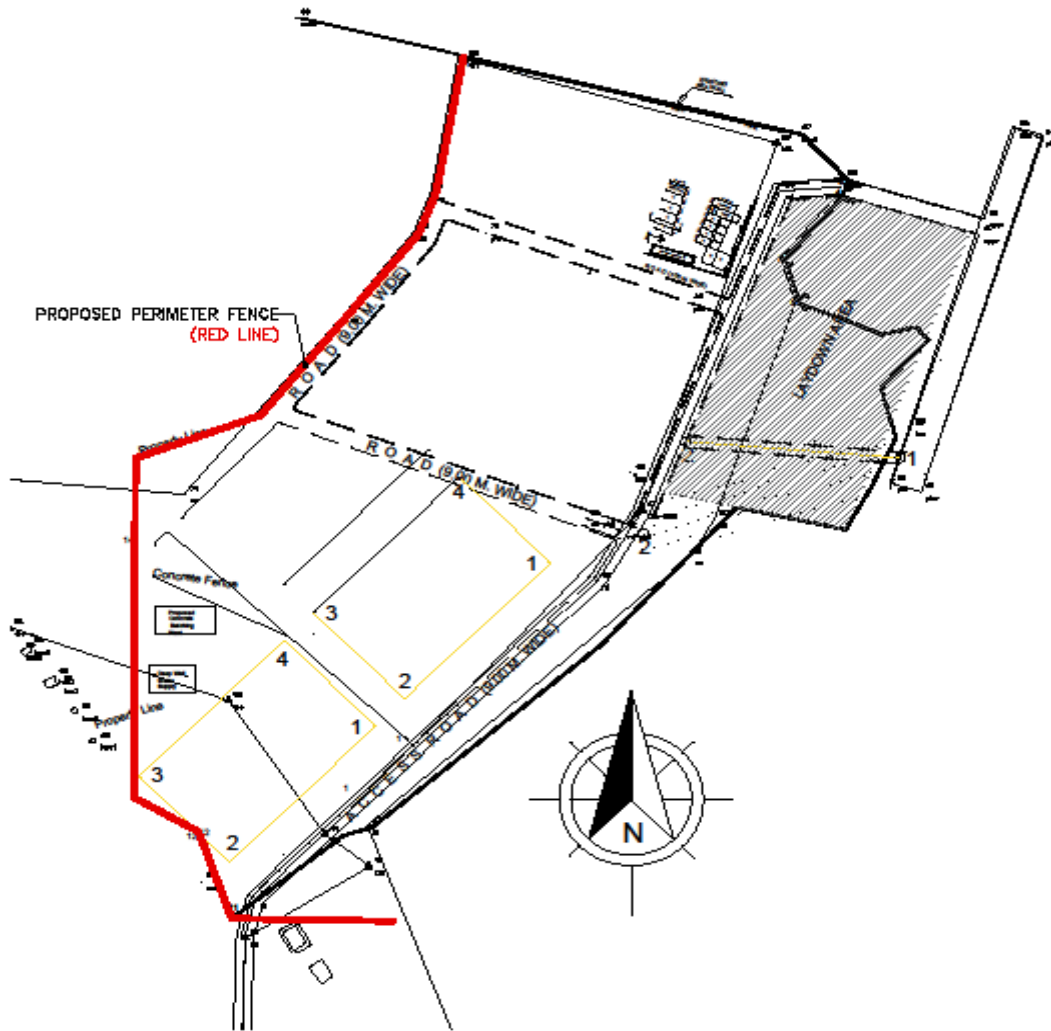
Parameters	Required Specifications	Proof of Technical Compliance
Lamp Post height	lamp post for Luminaire mounting height of at least 8 meters	Shop drawings or Visual inspection of sample
Lamp Post design	Tapered, with hand hole	Shop drawings and 3D Renderings

Pole material, including mounting bracket and other accessories	Hot dip galvanized	ASTM A123 Certification
Wind load capacity	The pole shall withstand a max wind speed of 250 kph gusting wind.	Structural Certification
Pole Structure Warranty	≥ 2Years	Warranty Certificate

III. MOUNTING PEDESTAL

Parameters	Required Specifications	Proof of Technical Compliance
Reinforced Concrete Pedestal	400x400 cross section Class A 24.13 mpa	Compressive test
Height from the Existing Ground Elevation	Equivalent to the centerline elevation of the existing carriage way	
Reinforcement Steel Bars	Grade 40 , ASTM-615 standard	Mill certificate

ANNEX B
Proposed Layout Plan



PROPOSED LAYOUT PLAN FOR PERIMETER FENCE

